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10/588,890	01/05/2007	Mikko Viikari	3501-1118	4043

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YOUNG & THOMPSON
745 SOUTH 23RD STREET
2ND FLOOR
ARLINGTON, VA 22202

EXAMINER	
QUADER, FAZLUL	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/588,890	VIIKARI ET AL.	
	Examiner	Art Unit	
	Fazlul Quader	2164	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *05 January 2007*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *33-60* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *33-60* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *10 August 2006* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date *08/10/2006, 03/27/2007*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

1. Claims 33-60 are pending in this application.

2. Claims 1-32 have been cancelled by the applicant.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 33-60 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sorvari et al. (US 20040043758), hereinafter "Sorvari" in view of Barry et al. (US 20050216421), hereinafter "Barry".

5. As to claim 33, Sorvari discloses, a data processing system comprising:

a unit for producing data elements ([0050]);

data processing means for processing data elements ([0047]);

a first database with at least part of its records containing the name information of a subscriber of a telecommunications system and the subscriber's address in the telecommunications system ([0048]); and

interface means containing output means for outputting information to the user and input means for receiving as input information from the user ([0002]; [0010]);

said output means are arranged to output to the user at least a part of the content of a data element and at least one selection option for selecting the name information of a subscriber for attaching person-based metadata to the data element ([0035]; [0038]);

said input means are arranged to receive as input from the user said selection of a subscriber's name information ([0048]); wherein

said data processing means are, in response to the name selection by the user, arranged to fetch the subscriber address in the telecommunications system related to the selected name information from the first database ([0048]); and

to attach to the data element metadata that contains the fetched subscriber address in the telecommunications system ([0048]), and the system also comprises a database system for storing data elements, the database system comprising a server and a second database, said server being arranged to receive a fetch request for a data element from a computer connected to the server ([0028]-[0029]); and

to check the access right to the data element on the basis of the subscriber address in the telecommunications system attached to the fetch request ([0048]; [0295]).

Sorvary, however, does not explicitly disclose, "selection option";

Barry, on the other hand, discloses, "selection option" that is modifiable (Barry: [0066]).

Both Sorvari and Barry are of the same field of endeavor, they specifically teach Web based telecommunication management (Sorvari: [0002]; Barry: [0002]).

It would have been obvious to one of the ordinary skill in the art at the time of applicant's invention to incorporate the teachings of Barry into Sorvari of system and method for providing context sensitive recommendations to digital services, that would

have allowed users of Sorvari to have an useful method of providing enterprise management tools to customers of a telecommunications service provider over the internet (Barry: [0002]).

6. As to claim 34, Sorvari as modified discloses, a data processing system as claimed in claim 33, wherein said output means are arranged to output a selection view that contains at least a part of the name information in the first database (Sorvari: [0052]).

7. As to claim 35, Sorvari as modified discloses, a data processing system as claimed in claim 34, wherein said output means are also arranged to provide the user with the option of attaching to the data element an additional definition controlling its access right (Sorvari: [0279]; [0294]);

said input means are arranged to receive as input from the user said additional definition (Sorvari: [0295]);

said data processing means are arranged to attach said additional definition to the data element (Sorvari: [0295]).

8. As to claim 36, Sorvari as modified discloses, a data processing system as

claimed in claim 34, wherein said output means are also arranged to provide the user with the option of attaching to the data element an additional definition controlling a function to be implemented during its storage (Sorvari: [0295]);

said input means are arranged to receive as input from the user said additional definition (Sorvari: [0295]);

said data processing means are arranged to attach said additional definition to the data element (Sorvari: [0295]).

9. As to claim 37, Sorvari as modified discloses, a data processing system as claimed in claim 36, wherein the server is arranged to receive said additional definition (Sorvari: [0295]); and,

in response to the received additional definition, to execute during storage the function defined by the additional definition (Sorvari: [0295]).

10. As to claim 38, Sorvari as modified discloses, a data processing system as claimed in claim 37, wherein said function includes transmitting the data element to the subscriber identified by the address in the telecommunications system comprised in the person-based metadata (Sorvari: [0295]-[0296]).

11. As to claim 39, Sorvari as modified discloses, a data processing system as claimed in claim 33, wherein the system also comprises a clock unit for defining the generation time of the data element, the clock unit being also arranged to attach to the data element metadata containing a data series identifier (Sorvari: [0093]; [0123]);

measure a time interval between two data elements (Sorvari: [0076]; [0300]);

compare the time interval with a predefined reference value (Sorvari: [0076]; [0300]);

attach, in response to undershooting the reference value, to the later data element the same identifier as to the earlier data element (Sorvari: [0076]); and

attach, in response to exceeding the reference value, to the later data element a different identifier than to the earlier data element (Sorvari: [0076]).

12. As to claim 40, Sorvari as modified discloses, a data processing system as claimed in claim 33, wherein the system also comprises a calendar unit (Sorvari: [0308]), the calendar unit being also arranged to:

detect the generation time of the data element; fetch a calendar event corresponding to the generation time (Sorvari: [0308]);

attach to the data element metadata containing said calendar event (Sorvari: [0308]; [0035]).

13. As to claim 41, Sorvari as modified discloses, a data processing system as claimed in claim 33, wherein the system also comprises a positioning unit ([0085]), the positioning unit being also arranged to:

generate location information on a system element containing the positioning unit at the generation time of the data element (Sorvari: [0059]);

attach to the data element metadata containing said location information (Sorvari: [0273]-[0274]).

14. As to claim 42, Sorvari as modified discloses, a data processing system as claimed in claim 33, wherein said data elements contain image data ([0283]).

15. As to claim 43, Sorvari discloses, a mobile station comprising:

a unit for producing data elements ([0050]);

data processing means for processing data elements ([0047]);

interface means containing output means for outputting information to the user and input means for receiving as input information from the user ([0002]; [0010]);

a phone list with at least part of its records containing name information of subscribers of a mobile communications system ([0048]), a record of name information of a subscriber comprising a name part including a subscriber's name in a form input by the user of the mobile station, and an address part including at least the subscriber's address in the mobile communications system ([0048]);

wherein said output means are arranged to output to the user at least a part of the content of a data element and a view to name part of the phone list for selecting the subscriber's name in a form input by the user of the mobile station, for attaching person-based metadata to the data element ([0035]; [0038]);

said input means are arranged to receive as input from the user a selected subscriber's name in a form input by the user of the mobile station ([0048]);

said data processing means are, in response to the selection of the subscriber's name, arranged to fetch the subscriber address in the mobile communications system related to the selected subscriber's name from the first database, and to attach to the

data element metadata that contains the fetched subscriber address at least in the mobile communications system ([0028]-[0029]).

Sorvary, however, does not explicitly disclose, "selection option";

Barry, on the other hand, discloses, "selection option" that is modifiable (Barry: [0066]).

Both Sorvari and Barry are of the same field of endeavor, they specifically teach Web based telecommunication management (Sorvari: [0002]; Barry: [0002]).

It would have been obvious to one of the ordinary skill in the art at the time of applicant's invention to incorporate the teachings of Barry into Sorvari of system and method for providing context sensitive recommendations to digital services, that would have allowed users of Sorvari to have an useful method of providing enterprise management tools to customers of a telecommunications service provider over the internet (Barry: [0002]).

16. As to claim 44, Sorvari discloses, a method for data processing in a system, in which a data element is generated, and records are maintained in a first database, and at least part of the records of the first database comprise name information of a

subscriber of a telecommunications system and the subscriber's address in the telecommunications system ([0048]), comprising:

outputting to the user with at least a part of the content of the data element and the option of selecting at least one subscriber's name information for attaching person-based metadata to the data element ([0035]; [0038]);

receiving as input from the user said subscriber's name information selection ([0048]);

fetching, in response to the user's selection, the address of the subscriber in the telecommunications system related to the selected name information from the first database ([0048]);

attaching to the data element metadata that contains the fetched subscriber address in the telecommunications system ([0048]);

storing data elements into a database system connected to the system, the database system comprising a server and database ([0028]-[0029]); and

receiving a data element fetch request from a computer connected to the server ([0028]-[0029]); and

checking the access right to the data element on the basis of the subscriber address in the telecommunications system attached to the fetch request ([0048]; [0295]).

Sorvary, however, does not explicitly disclose, "selection option";

Barry, on the other hand, discloses, "selection option" that is modifiable (Barry: [0066]).

Both Sorvari and Barry are of the same field of endeavor, they specifically teach Web based telecommunication management (Sorvari: [0002]; Barry: [0002]).

It would have been obvious to one of the ordinary skill in the art at the time of applicant's invention to incorporate the teachings of Barry into Sorvari of system and method for providing context sensitive recommendations to digital services, that would have allowed users of Sorvari to have an useful method of providing enterprise management tools to customers of a telecommunications service provider over the internet (Barry: [0002]).

17. As to claim 45, Sorvari as modified discloses, a method as claimed in claim 44, further comprising providing a selection view containing at least a part of the name information in the first database (Sorvari: [0052]).

18. As to claim 46, Sorvari as modified discloses, a method as claimed in claim 45, further comprising providing the user with the option of attaching to the data element an additional definition controlling its access right (Sorvari: [0279]; [0294]);

receiving as input from the user said additional definition; attaching said additional definition to the data element (Sorvari: [0295]).

19. As to claim 47, Sorvari as modified discloses, a method as claimed in claim 45, further comprising providing the user with the option of attaching to the data element an additional definition controlling a function executed during the storage of the data element (Sorvari: [0279]; [0294]);

receiving as input from the user said additional definition (Sorvari: [0295]);

attaching said additional definition to the data element (Sorvari: [0295]).

20. As to claim 48, Sorvari as modified discloses, a method as claimed in claim 47,

further comprising receiving to the server said additional definition (Sorvari: [0295]); and,

in response to the received additional definition, executing said function during storage (Sorvari: [0295]).

21. As to claim 49, Sorvari as modified discloses, a method as claimed in claim 48, further comprising executing said function by transmitting the data element to the subscriber identified by the subscriber address in the telecommunications system contained in the person-based metadata (Sorvari: [0295]-[0296]).

22. As to claim 50, Sorvari as modified discloses, a method as claimed in claim 46, further comprising: defining the generation time of the data element (Sorvari: [0093]; [0123]);

attaching to the data element metadata containing an identifier that identifies a data series to which the data element belongs (Sorvari: [0093]; [0123]);

measuring a time interval between two data elements (Sorvari: [0076]; [0300]);

comparing the time interval with a predefined reference value (Sorvari: [0076]; [0300]);

attaching, in response to undershooting the reference value, to the later data element the same identifier as to the earlier data element (Sorvari: [0076]); and

attaching, in response to exceeding the reference value, to the later data element a different identifier than to the earlier data element (Sorvari: [0076]).

23. As to claim 51, Sorvari as modified discloses, a method as claimed in claim 46, further comprising:

detecting the generation time of the data element (Sorvari: [0308]);

fetching a calendar event corresponding to the generation time (Sorvari: [0308]);

attaching to the data element metadata containing said calendar event (Sorvari: [0308]; [0035]).

24. As to claim 52, Sorvari as modified discloses, a method as claimed in claim 46, further comprising:

generating the location information of the system element that generated the data element at the generation time of the data element (Sorvari: [0059]):

attaching to the data element metadata containing said location information (Sorvari: [0273] - [0274]).

25. As to claim 53, Sorvari discloses, a software product of a computer, further comprising: executing commands makes the computer to implement the steps of:

receiving a data element and person-based contentual metadata attached to the data element, the contentual metadata containing the address of at least one subscriber in a specific telecommunications system ([0035]; [0038]);

checking whether an additional definition controlling the access right of the data element is attached to the received data element ([0279]; [0294]);

executing said function in response to the fact that an additional definition is attached ([0295]).

Sorvary, however, does not explicitly disclose, "selection option";

Barry, on the other hand, discloses, "selection option" that is modifiable (Barry: [0066]).

Both Sorvari and Barry are of the same field of endeavor, they specifically teach Web based telecommunication management (Sorvari: [0002]; Barry: [0002]).

It would have been obvious to one of the ordinary skill in the art at the time of applicant's invention to incorporate the teachings of Barry into Sorvari of system and method for providing context sensitive recommendations to digital services, that would have allowed users of Sorvari to have an useful method of providing enterprise management tools to customers of a telecommunications service provider over the internet (Barry: [0002]).

26. As to claim 54, Sorvari discloses, a network element of a telecommunications system, the network element comprising:

first interface means for receiving data elements ([0048]);

user interface means for outputting information to the user and receiving as input information from the user; second interface means containing output means for outputting information to the user and input means for receiving as input information from the user ([0002]; [0010]);

wherein the network element is connected to a first database for access to a phone list with at least part of its records containing name information of subscribers of a mobile communications system, a record of name information of a subscriber comprising a name part including a subscriber's name in a form input by the user of the network element, and an address part including a subscriber's address in the mobile communications system ([0048]);

said output means are arranged to output to the user at least a part of the content of a data element and a view to name part of the phone list for selecting the subscriber's name in a form input by the user of the network element, for attaching person-based metadata to the data element ([0035]; [0038]);

said input means are arranged to receive as input from the user a selected subscriber's name in the form input by the user of the network element ([0048]);

said data processing means are, in response to the selection by the user, arranged to fetch the subscriber's address in the mobile communications system related to the selected name information from the first database ([0048]); and

to attach to the data element metadata that contains the fetched subscriber address in the mobile communications system ([0048]).

Sorvary, however, does not explicitly disclose, "selection option";

Barry, on the other hand, discloses, "selection option" that is modifiable (Barry: [0066]).

Both Sorvari and Barry are of the same field of endeavor, they specifically teach Web based telecommunication management (Sorvari: [0002]; Barry: [0002]).

It would have been obvious to one of the ordinary skill in the art at the time of applicant's invention to incorporate the teachings of Barry into Sorvari of system and method for providing context sensitive recommendations to digital services, that would have allowed users of Sorvari to have an useful method of providing enterprise management tools to customers of a telecommunications service provider over the internet (Barry: [0002]).

27. As to claim 55, Sorvari discloses, a database system of a telecommunications system ([0005]; [0008]), the database system comprising a database and a server ([0005]), wherein the server comprises first interface means for receiving a data element and person-based contentual metadata attached to the data element, the contentual metadata containing the address of at least one subscriber in a specific telecommunications system ([0048]); and

data processing means arranged to check whether an additional definition controlling the access right of the data element is attached to the received data element ([0279]; [0294]);

execute said function in response to the fact that an additional definition is attached ([0295]).

Sorvary, however, does not explicitly disclose, "selection option";

Barry, on the other hand, discloses, "selection option" that is modifiable (Barry: [0066]).

Both Sorvari and Barry are of the same field of endeavor, they specifically teach Web based telecommunication management (Sorvari: [0002]; Barry: [0002]).

It would have been obvious to one of the ordinary skill in the art at the time of applicant's invention to incorporate the teachings of Barry into Sorvari of system and method for providing context sensitive recommendations to digital services, that would have allowed users of Sorvari to have an useful method of providing enterprise

management tools to customers of a telecommunications service provider over the internet (Barry: [0002]).

28. As to claim 56, Sorvari as modified discloses, a database system as claimed in claim 55, wherein the data processing means are further arranged to check whether an additional definition controlling the access right of the data element is attached to the received data element (Sorvari: [0279]; [0294]);

control the access of the data element in response to the fact that an additional definition is attached ([0295]).

29. As to claim 57, Sorvari as modified discloses, a database system as claimed in claim 55, wherein the first interface means are arranged to receive a first data element (Sorvari: [0048]);

receive a second data element (Sorvari: [0028]); and

the data processing means are arranged to read first metadata attached to the first data element and second metadata attached to the second data element (Sorvari: [0035]);

check whether the first and second metadata simultaneously meet a specific combination rule (Sorvari: [0281]);

combine, in response to the first and second metadata simultaneously meeting the specific combination rule, the first and second data element into a data set to be processed as one entity (Sorvari: [0281]-[0282]).

30. As to claim 58, Sorvari as modified discloses, a database system as claimed in claim 57, wherein the combination rule of the data processing means is a functionality stored in the data processing means, and the data processing means are arranged to check the combination rule in response to receiving data elements (Sorvari: [0281]-[0282]).

31. As to claim 59, Sorvari as modified discloses, a database system as claimed in claim 57, wherein said interface means are arranged to receive the combination rule from the user (Sorvari: [0281]-[0283]).

32. As to claim 60, Sorvari discloses, a computer program product encoding a computer process of instructions for executing a computer process for data processing in a system, in which a data element is generated ([0050]), and records are maintained in a first database, and at least part of the records of the first database comprise name

information of a subscriber of a telecommunications system and the subscriber's address in the telecommunications system (0048]), the process comprising:

outputting to the user with at least a part of the content of the data element ([0002]; [0010]) and the option of selecting at least one subscriber's name information for attaching person-based metadata to the data element ([0035]; [0038]);

receiving as input from the user said subscriber's name information selection ([0002]; [0010]);

fetching, in response to the user's selection, the address of the subscriber in the telecommunications system related to the selected name information from the first database ([0048]);

attaching to the data element metadata that contains the fetched subscriber address in the telecommunications system ([0048]);

storing data elements into a database system connected to the system, the database system comprising a server and database 0028]-[0029]); and

receiving a data element fetch request from a computer connected to the server; and checking the access right to the data element on the basis of the subscriber address in the telecommunications system attached to the fetch request ([0048]).

Sorvary, however, does not explicitly disclose, "selection option";

Barry, on the other hand, discloses, "selection option" that is modifiable (Barry: [0066]).

Both Sorvari and Barry are of the same field of endeavor, they specifically teach Web based telecommunication management (Sorvari: [0002]; Barry: [0002]).

It would have been obvious to one of the ordinary skill in the art at the time of applicant's invention to incorporate the teachings of Barry into Sorvari of system and method for providing context sensitive recommendations to digital services, that would have allowed users of Sorvari to have an useful method of providing enterprise management tools to customers of a telecommunications service provider over the internet (Barry: [0002]).

Conclusion

33. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Janik (US 20020013852) teaches system for providing content, management and interactivity for thin client devices

Mehra et al. (US 20020049603) teach method and apparatus for a business applications server.

Contact Information

34. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazlul Quader whose telephone number is 571-270-1905. The examiner can normally be reached on M-F 8-5 Alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Rones can be reached on 571-272-4085. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Fazlul Quader
Examiner
Art Unit 2164

FQ
02/14/2008

C. Rones

CHARLES RONES
SUPERVISORY PATENT EXAMINER